

WE CLAIM:

1. A method of installing a linear smoke detector having a light emitter and a light receiver, together referred to as the detector, and a reflector which is arranged opposite the detector and which reflects a light beam from the light emitter to the light receiver, said method comprising fixing the detector at an installation position, affixing an installation tool comprising a light source which is aimed in the same direction as the light emitter onto the detector, actuating the light source so as to emit bundled light marking the installation position of the reflector using the bundled light emitted from the light source, and installing the reflector at the installation position.

2. A method of installing a linear smoke detector having a light emitter and a light receiver, together referred to as a detector, and a reflector which is arranged opposite the detector and which reflects a light beam from the light emitter to the light receiver, said method comprising mounting the reflector at an installation position, affixing an installation tool comprising a light source which is aimed in the same direction as the light emitter onto the detector, actuating the light source so as to emit bundled light, aligning the detector with the reflector using a position of the bundled light emitted on a surface opposite the reflector, thereby determining a mounting position of the detector, and installing the detector at said position.

3. The method according to claim 1, wherein after the reflector is mounted, making a fine adjustment of an optical system for the light emitter and light receiver.

4. The method according to claim 2, wherein the detector and reflector are mounted at a mounting position, and the installation tool is put on the detector and the detector is aligned relative to the reflector by changing the detector's inclination.

5. The method according to claim 4, wherein the detector is aligned on the basis of an adjustment magnitude which is determined by a magnitude of deviation of a point of light from the reflector and a distance between the detector and reflector.

6. A tool for aligning a linear smoke detector and reflector, comprising a cover which is adapted to fit on a front side of the detector, said cover comprising a light source which emits a beam of bundled light coincident with a light emitter in the detector.

7. A detector adapted for use with the tool according to claim 6, comprising a base, a detector insert which contains a light emitter and light receiver, and a detector cover which covers the detector insert.

8. The tool according to claim 7, wherein the light source is integrated with the installation cover and is aligned with the light emitter.

9. The detector according to claim 7, wherein the base adjusts the detector's inclination.

10. The method according to claim 1 or 2, further comprising aligning the detector on the basis of an adjustment magnitude, which is determined by a magnitude of a deviation of a point of light from the light source and from the reflector and providing a distance between the detector and reflector.

11. The tool according to claim 7, wherein the light source is a laser.